

Form PTO-1449	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. 00-713-i12	Serial No. 09/975,376
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>			
Applicant: Chad A. Mirkin, et al.			
Filing Date: 10/11/01		Group: 1656	

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
<i>AD</i>	1. 5,288,609	02/08/94	Mroczkowski, et al.			
	2. 5,284,748	02/22/94	Engelhardt, et al.			
	3. 5,360,895	11/01/94	Hainfield, et al.			
	4. 5,384,265	01/24/95	Kidwell, et al.			
	5. 5,472,881	12/05/95	Beebe, et al.			
	6. 5,599,668	02/04/97	Stimpson, et al.			
	7. 5,637,508	06/10/97	Kidwell, et al.			
	8. 5,751,018	05/12/98	Alivisatos, et al.			
	9. 5,939,021	08/17/99	Hansen, et al.			
<i>AD</i>	10. 5,990,479	11/23/99	Weiss, et al.			

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	Document Number	Date	Country	Class	Subclass	Translation Yes N
<i>AD</i>	11. WO 93/10564	27 May 93	PCT			
	12. WO 98/10289	12 March 98	PCT			
	13. WO 99/23258	14 May 99	PCT			
	14. WO 99/21934	06 May 99	PCT			
<i>AD</i>	15. WO 99/20789	29 April 99	PCT			

**OTHER DOCUMENTS - Including Author, Title, Date, Pertinent Pages, Etc.**

16	O.D. Velev, et al., "In Situ Assembly of Colloidal Particles into Miniaturized Biosensors," <i>Langmuir</i> , Vol. 15, No. 11, pp. 3693-3698, May 25, 1999
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Examiner	Date Considered
<i>Alexander H. Snel</i>	3/5/04

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AS	1.	5,599,668	02/04/97	Stimpson, et al.			
AS	2.	5,990,479	11/23/99	Weiss, et al.			

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3.	Stimpson, et al., "Real-time detection of DNA hybridization and melting on oligonucleotide arrays by using optical wave guides," <i>Proc. Natl. Acad. Sci.</i> , Vol. 92, pp. 6379-6383, California Institute of Technology (1995) U.S.
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8.	Yguerabide, et al., "Light-Scattering Submicroscopic Particles as Highly Fluorescent Analogs and Their Use as Tracer Labels in Clinical and Biological Applications," I. Theory, <i>Analytical Biochemistry</i> , Vol. 262, pp. 137-156 (1998) U.S.
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	2. 6,025,202	02/15/00	Natan			
AS	3. 6,149,868	11/21/00	Natan, et al.			

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1.	Brada, et al., "Golden Blot" – Detection of Polyclonal and Monoclonal Antibodies Bound to Antigens on Nitrocellulose by Protein A-Gold Complexes, <i>Analytical Biochemistry</i> , Vol. 42, pp. 79-83 (1984) U.S.
2.	Dunn, et al., "A Novel Method to Map Transcripts: Evidence for homology between an Adenovirus mRNA and Discrete Multiple Regions of the Viral Genome, <i>Cell</i> , Vol. 12, pp. 23-36, (1997) U.S.
3.	Hacker, "High performance Nanogold – Silver in situ hybridisation, <i>Eur. J. Histochem.</i> , Vol. 42, pp. 111-120 (1998) U.S.
4.	Ranki, et al., "Sandwich hybridization as a convenient method for the detection of nucleic acids in crude samples," <i>Gene</i> , Vol. 21, pp. 77-85 (1983) U.S.
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A	1. 5,830,986	11/03/98	Merrill, et al.	528	332	10/28/96
	2. 5,900,481	05/04/99	Lough, et al.	536	55.3	11/06/96
	3. 6,203,989	03/20/01	Goldberg, et al	435	6	03/25/99
	4. 6,251,303	06/26/01	Bawendi, et al.	252	301.4R	09/18/98
	5. 6,277,489	08/21/01	Abbott, et al.	428	403	12/04/98
	6. 6,306,610	10/23/01	Bawendi, et al.	435	7.1	09/17/99
	7. 6,361,944	03/26/02	Mirkin, et al.	435	6	06/25/99
	8. 6,365,418	04/02/02	Wagner, et al.	436	518	05/18/00
A	9. 6,417,340	07/09/02	Mirkin, et al.	536	23.1	10/20/00

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A	10. WO 93/25709	23 December 1993	PCT			
	11. WO 98/04740	5 February 1998	PCT			
	12. WO 98/17317	30 April 1998	PCT			
	13. WO 99/60169	25 November 1999	PCT			
	14. WO 00/33079	8 June 2002	PCT			
A	15. WO 01/00876	4 January 2001	PCT			

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16.	WO 01/51665	19 July 2001	PCT				
17.	WO 01/73123	4 October 2001	PCT				
18.	WO 01/86301	15 November 2001	PCT				
19.	WO 02/04681	17 January 2002	PCT				
20.	WO 02/18643	7 March 2002	PCT				
21.	WO 02/36169	10 May 2002	PCT				
22.	WO 02/46483	13 June 2002	PCT				
23.	WO 02/46472	13 June 2002	PCT				

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24.	Letsinger, R., et al., "Chemistry of Oligonucleotide-Gold Nanoparticle Conjugates," <i>Phosphorus, Sulfur and Silicon</i> , Volume 144, p. 359-362 (1999)
25.	Letsinger, R., et al., "Use of a Steroid Cyclic Disulfide Anchor in Constructing Gold Nanoparticle-Oligonucleotide Conjugates," <i>Bioconjugate Chem.</i> , p. 289-291 (2000)

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26.	Li Z., et al., "Multiple thiol-anchor capped DNA-gold nanoparticle conjugates," <i>Nucleic Acids Research</i> , Volume 30, p. 1558-1562 (2002)
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	5,972,615	10/26/99	An, et al.	435	6	01/21/98
	6,264,825	07/24/01	Blackburn, et al.	205	777.5	06/23/99
AD	6,214,560	04/10/01	Yguerabide, et al.	435	7.1	04/18/97

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	Document Number	Date	Country	Class	Subclass	Translation Yes	Translation No
AD	WO 94/29484	12/22/94	PCT				
AD	WO 00/25136	05/04/00	PCT				

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11.	Whitesides G.M., et al. "Soft Lithography in Biology and Biochemistry," <i>Annu. Rev. Biomed. Eng.</i> , p. 335-373 (2001)

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	2.	4,256,834	3/17/81	Zuk et al.			
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QD	22.	WO 89/06801	7/27/89	PCT			
	23.	WO 97/40181	10/30/97	PCT			
	24.	WO 98/04740	2/5/98	PCT			
	25.	WO 99/23258	10/30/98	PCT			
	26.	0 630 974 A2	06/21/94	EPO			
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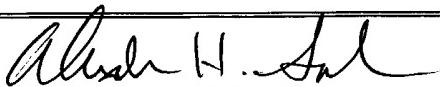
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Applicant: Chad A. Mirkin, et al.	
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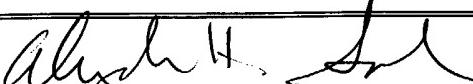
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	Document Number	Date	Country	Class	Subclass	Translation Yes N

**OTHER DOCUMENTS - Including Author, Title, Date, Pertinent Pages, Etc.**

50.	Roubi, "MOLECULAR MACHINES – Nanodevice with rotating arms assembled from synthetic DNA," <i>Chemical &amp; Engineering News</i> , p. 13, (Jan. 1999)
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		Applicant: MIRKIN et al.	
		Filing Date: 10/11/01	Group: 1656

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## **FOREIGN PATENT DOCUMENTS**

		Document Number	Date	Country	Class	Subclass	Translation Yes      No
<i>AS</i>	1.	WO 92/04469	19 March 1992	PCT			X
<i>AS</i>	2.	WO 90/02205	8 March 1990	PCT			X

**OTHER DOCUMENTS - Including Author, Title, Date, Pertinent Pages, Etc.**

Examiner	Alexander H. Smith	Date Considered	3/15/04
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